

ASOS MODIFICATION NOTE 6 (for Electronics Technicians)

Engineering Division

W/OS0321: BGM

SUBJECT : Replacement Data Collection Platform (DCP)
Circuit Breaker for the Ceilometer

PURPOSE : The ceilometer circuit breaker in the DCP is
underrated and is being replaced with a circuit
breaker rated for 10 amps.

EQUIPMENT AFFECTED: ASOS DCP units 2, 3, and 4

PARTS REQUIRED : 10 amp circuit breaker, 1 ea., P/N 62828-90037-
7
Identification label, 1 ea.

MOD PROCUREMENT : The above parts will be provided by the
contractor, AAI Systems Management, Inc., as
ASOS Field Modification Kit (FMK) #037. ECP:
E92SMD50F060

**SPECIAL TOOLS
REQUIRED** : None

TIME REQUIRED : 0.5 hour

**EFFECT ON OTHER :
INSTRUCTIONS** : None.

**CERTIFICATION
STATEMENT** : This modification was tested by the contractor.

GENERAL

The DCP 6-amp circuit breaker (2A1A3A1) for the ceilometer is underrated. The circuit breaker (CB2) in the Laser Beam Ceilometer CT12K is rated for 10 amps. This breaker supplies line power from the DCP to the window conditioner relays K1 and K2. K1 turns the blower on and K2 controls the heater. The relay contacts are arranged so heating cannot be supplied unless the blower is on. In some cases when the window conditioner is activated, this causes the DCP circuit breaker (2A1A3A1) to exceed the 6 amp current rating.

PROCEDURE

Follow installation instructions for ASOS Field Modification Kit (FMK) - #037 provided by AAI Systems Management, Inc.

REPORTING MODIFICATION

Target date for completing this modification is 30 days after receipt of parts. Report completed modification on WS Form H-28, Engineering Progress Report, according to instructions in EHB-4, part 2, using reporting code ASOS.

J. Michael St. Clair
Chief, Engineering Division

Attachment

W/OS0321: BGMcCormick: sol: 6/9/93: rhz: 6/15/93
Disk EHB10, 11, 12 "ASOSMOD6.H11" WP5.1 Speller

SID _____
037

FMK #

ASOS FIELD MOD KIT (FMK)

CONTRACT 50-SANW-1-00050

UPON COMPLETION OF MOD, COMPLETE LOWER SECTION
OF THIS SHEET AND RETURN TO:

AAI SYSTEMS MANAGEMENT INC.
11101 GILROY ROAD
HUNT VALLEY, MD. 21030-1108

NOTE: MAKE A COPY FOR ON-SITE RECORDS

Date Prepared: 6/02/93 Task Order/ECP: E92SMOSOF060

Documentation included: INSTALLATION PROCEDURE (ATTACHMENT 1)

Description of Change: REPLACE 6 amp CIRCUIT BREAKER WITH 10 amp

Parts Included: 10 amp CIRCUIT BREAKER P/N 62828-90037-7 QTY. 1
IDENTIFICATION LABEL QTY. 1

QA Concurrence with FMK: _____

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Date modification complete: _____

Part Removed Serial # _____

Part Installed Serial # _____

Person Completing Modification: _____

Were FMK instructions clear/concise: Y / N (circle)

Was FMK complete (parts, drawings, etc.): Y / N (circle)

If NO, please comment (use back of form if needed):

DESCRIPTION OF CHANGE: Replace CB2, 6 amp circuit breaker, in the ceilometer circuit breaker module, with a 10 Amp circuit breaker.

EQUIPMENT SUPPLIED: 10 AMP CIRCUIT BREAKER 1 ea P/N 62828-90037-7
Identification Label 1 ea

1. Set output power switch S1 on the UPS status panel to OFF (O) position. Output indicator on status panel extinguishes. (CLASS 2 ONLY)
2. Set primary circuit breaker module 2A1A3A1 to OFF position.
3. Remove facility power from DCP cabinet by setting DCP circuit breaker in AC Junction Box to off.
4. At DCP battery box Disconnect connector WO3l-P1 from J1. (CLASS 2 ONLY)
5. Loosen two captive screws securing module retaining strip to power control module rack.
6. Remove module retaining strip from assembly.
7. Locate circuit breaker module 2A1A3A1 marked CHI.
Place fingers behind module faceplate and pull outward.
Remove module from rack.
8. Locate 6 amp circuit breaker CB2 (marked HTR on faceplate).
9. Remove two Phillips screws securing circuit breaker to faceplate.
10. Remove CB2-Line/A1TB1-4 wire from circuit breaker. Remove CB2-LOAD/A1TB1-3 wire from circuit breaker.
11. Install new 10 amp circuit breaker to faceplate with two Phillips screws, ensuring the LINE and LOAD markings on circuit breaker face up.
12. Install CB2-LINE/A1TB1-4 Wire onto the circuit breaker terminal marked "LINE".
13. Install CB2-LOAD/A1TB1-3 wire onto the circuit breaker terminal marked "LINE".
14. Install Identification label 97384 ASSY 69826-40155-80 over existing label on circuit breaker module.

Attachment 1

15. Align module with rack mounted guides and carefully push module into rack until firmly seated in rack mounted connector.
16. Reinstall module retaining strip and hand tighten two captive screws.
17. At DCP battery box connect connector W031-Pl to J1.
(CLASS 2 ONLY)
18. Apply facility power to DCP cabinet setting DCP circuit breaker in AC junction box to ON position.
19. Set primary circuit breaker module A1A3A1 to ON position.
20. Set output power switch on UPS status panel to 1 (ON) position. (CLASS 2 Only)
21. Check for proper system operation.